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1. DLA152-001: Advanced Manufacturing Technologies

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks drastically lower unit costs of discrete-parts support through manufacturing revolutions that also have applicability to low and high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while potentially impacting the ...

SBIR Defense Logistics AgencyDepartment of Defense

2. DLA152-002: Medical 3D Printing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks to integrate 3D printing into the Medical supply chain. Medical 3D printing is a disruptive, game-changing technology that will significantly alter medical supply chains in the future. Integrating medical 3D printing will transform customer experience because the supplies will be customizable and available on-demand. With medical 3D printing, the DLA Medical Supply Chain can offer new pr ...

SBIR Defense Logistics AgencyDepartment of Defense

3. DLA152-003: Ceramic Additive Manufacturing for Metal Casting

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DLA seeks drastically lower unit costs and availability of cast parts support through manufacturing revolutions that also have applicability to low or high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while a potential i ...

SBIR Defense Logistics AgencyDepartment of Defense

4. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics ActivityDepartment of Defense

5. DMEA13B-001: Electrochemical Micro-Capacitors Utilizing Carbon Nanostructures

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

TECHNOLOGY AREAS: Materials/Processes, Electronics The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordan ...

STTR Department of DefenseDefense Microelectronics Activity

6. DMEA132-001: Miniaturized RF over Fiber

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Design and prototype a capability to use fiber optic cable to simultaneously distribute power (i.e power over fiber) while providing full duplex information flow. The capability will allow miniature microwave system components to be distributed over a relatively long distance (i.e. 30 meters or more) via fiber optics. For example, a processing node (within a microwave system) provid ...

SBIR Defense Microelectronics Activity

7. DMEA132-002: High Resolution Three-Dimensional Digital Reconstruction of Integrated Circuits

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a system for the accurate identification and analysis of semiconductor materials with integrated, high-resolution imaging capability for the three-dimensional digital reconstruction of integrated circuits (ICs). DESCRIPTION: As semiconductor geometries continue to diminish, so too does the applicability of traditional sample preparation tools. As the thickness of metal l ...

SBIR Defense Microelectronics Activity

8. DMEA122-001: High Speed, High Resolution X-ray System for Inspecting Integrated Circuits

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an affordable x-ray microscope system for use in performing integrated circuit (IC) reverse engineering. DESCRIPTION: X-ray microscopy using a synchrotron as the x-ray source has been demonstrated to be an extremely valuable tool in the performance of high throughput integrated circuit evaluation and reverse engineering efforts. However, synchrotron x-ray sources are prohi ...

SBIR Defense Microelectronics Activity

9. DLA-001: Advanced Forging Manufacturing Innovations

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value repair parts consistently to our customers, including forged parts which are made when metal is pressed or hammered under great pressure. DLA continually investigates diverse technologies for manufacturing forgings which would lead to the highest level of innovation in the support of fielded weapon systems wit ...

SBIR Defense Logistics Agency

10. DLA-002: Advanced Battery Technologies and Manufacturing Process Improvements

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value supplies consistently to our customers. DLA continually investigates diverse technologies for manufacturing which would lead to the highest level of innovation in battery products supporting fielded weapon systems (many of which were designed in the 1960"s, 1970"s and 1980"s) with a future impact on both commerci ...

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